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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,246	06/25/2003	George Baran	6298/432	4973
Kent E. Genin	7590 08/10/2007		EXAM	: INER
Brinks Hofer Gilson & Lione			THANH, QUANG D	
P.O. Box 10395 Chicago, IL 60610			ART UNIT	PAPER NUMBER
<b>U</b>		•	3771	
			MAIL DATE	DELIVERY MODE
	•	•	08/10/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/607,246	BARAN, GEORGE			
Office Action Summary	Examiner	Art Unit			
	Quang D. Thanh	3771			
The MAILING DATE of this communication app Period for Reply	pears on the cover shee	t with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of the may be available under the provisions of 37 CFR 1.11 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period vor Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUM 36(a). In no event, however, may will apply and will expire SIX (6), cause the application to become	UNICATION.  By a reply be timely filed  MONTHS from the mailing date of this communication.  BY ABANDONED (35 U.S.C. § 133).			
Status		•			
1)⊠ Responsive to communication(s) filed on <u>26 M</u>	lay 2007.	•			
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935	C.D. 11, 453 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 69-74,81-97,99-103 and 106-119 is/a 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 91-97 and 109-119 is/are allowed. 6) ☐ Claim(s) 69,71-74,83,84,99,101,102,106 and 1 7) ☐ Claim(s) 70,81,82,85-90,100,103 and 108 is/are 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.  107 is/are rejected.  re objected to.				
Application Papers		•			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example.	epted or b)⊡ objected drawing(s) be held in abe ion is required if the drav	eyance. See 37 CFR 1.85(a). ving(s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received i rity documents have be u (PCT Rule 17.2(a)).	n Application No een received in this National Stage			
Attachment(s)		C			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application			

Art Unit: 3771

### **DETAILED ACTION**

- 1. This office action is responsive to the amendment filed on 5/19/07. As directed by the amendment: claims 69,71, 81,101,103,106,108 have been amended; claims 1-68, 75-80, 98, 104-105 have been cancelled; and new claims 109-119 have been added. Thus, claims 69-74, 81-97, 99-103, 106-119 are presently pending in this application.
- 2. The indicated allowability of claims 69 and 101 is withdrawn in view of the newly discovered reference(s) of Makhould et al. (5,291,882). Rejections based on the newly cited reference(s) follow.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 69, 71-74, 99, 101-102, 106-107 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith et al. (5,031,613) in view of Makhould et al. (5,291,882). Smith discloses a catheter (fig. 1) for delivering an aerosol of medicine to a patient comprising: a catheter shaft 2 having a proximal end and a distal end (fig. 1), the distal end 8 of the catheter shaft includes an hour-glass shaped neck 6 (fig. 2) configured to deliver the aerosol plume of particles toward airway passage walls in a patient when the catheter is positioned in the patient (col. 3, lines 27-29); a lumen extending through the catheter shaft and adapted at a proximal end for receiving a medicine and

Application/Control Number: 10/607,246

Art Unit: 3771

Page 3

communicating at the distal end with a distal medicine orifice from which the medicine is discharged in a direction toward the proximal end of the catheter shaft (fig. 1); and means for nebulizing the medicine discharged at the distal orifice into an aerosol plume of particles of the medicine (fig. 1); wherein the catheter shaft is configured for placement in the patient's lungs (col. 3, lines 27-29); wherein at least a portion of the catheter is constructed of a compliant material (col. 2, lines 16-18); wherein the medicine comprises a liquid (col. 3, lines 30-42); except for the distal end of the catheter shaft forms a J-shape. However, Makhould et al. teaches a ventilation tube 14 that includes a distal end 28 having a J-shape (fig. 1), which serves to direct the flow of fluid away from the distal end (fig. 1, col. 5, lines 48-89). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention was made to modify the device in the Smith's reference, to include a catheter shaft having a J-shaped distal end, as suggested and taught by Makhould, so that flow through the shaft is directed away from the distal of the shaft (fig. 1, col. 7, lines 43-50) toward the lungs.

## Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 83-84 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Art Unit: 3771

7. Claim 83 recites the limitation "the distal <u>gas</u> orifice". There is insufficient antecedent basis for this limitation in the claim. Also, the limitation "the second distal gas orifice <u>faces</u> the distal gas orifice" appears to be incorrect since the second distal gas orifice is located adjacent to the distal liquid orifice (see fig. 29).

8. Claim 84 recites the limitation "the distal <u>liquid</u> orifice". There is insufficient antecedent basis for this limitation in the claim. Also, the limitation "the second distal gas orifice <u>faces</u> the distal liquid orifice" appears to be incorrect since the second distal gas orifice is located adjacent to the distal liquid orifice (see fig. 29).

# Allowable Subject Matter

- 9. Claims 91-97, 109-119 are allowed.
- 10. Claims 70, 100, 81-82, 85-90, 103 and 108 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 11. Claims 83-84 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang D. Thanh whose telephone number is (571) 272-4982. The examiner can normally be reached on Monday-Thursday & alternate Friday.

Application/Control Number: 10/607,246

Art Unit: 3771

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

Page 5

supervisor, Justine Yu can be reached on (571) 272-4835. The Central FAX phone

number for the organization where this application or proceeding is assigned is (571)

273-8300 for all communications.

Information regarding the status of an application may be obtained from the

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

|Quang D. Thanh|

Quang D. Thanh, Primary Examiner

Art Unit 3771, (571) 272-4982